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SPECIAL DATA COLLECTION SYSTEM (SDCS) EVENT REPORT,
NTS EVENT 'EDAM', 24 APRIL 1975

J. R. Woolson, et al

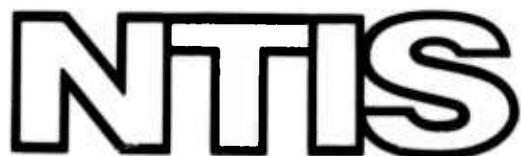
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SDCS-ER-75-20

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**SPECIAL DATA COLLECTION SYSTEM EVENT REPORT
NTS Event "EDAM", 24 April 1975**

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September 1975

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SDCS Event Report No. 20

NTS Event "EDAM", 24 April 1975

This event report contains seismic data from the Special Data Collection System (SDCS), and other sources for the above event. Published epicenter information from seismic observations is:

	Origin Time	Latitude	Longitude	m_b	M_s
NORSAR	N/A	N/A	N/A	N/A	N/A
LASA	N/A	N/A	N/A	N/A	N/A
PDE	14:10:00	37.1N	116.1W	4.6	N/A
Hagfors Array, Sweden	N/A	N/A	N/A	N/A	N/A

Using SDCS stations and LASA, the epicenter location becomes

SDCS & Arrays	14:10:00	37.0N	116.4W	4.8	3.6
---------------	----------	-------	--------	-----	-----

All SDCS stations were operational for this event.

Short-period signals associated with this event were recorded at RK-CN, CPSO, HN-ME, and LASA. The signal was not observed at FN-WV. The apparent signal at WH2YK was not used in the hypocenter and magnitude calculations due to timing uncertainties. NORSAR did not report this event.

Analysis of long-period records yielded a definite signal only at WH2YK. There were weak indications at CPSO and FN-WV. The long-period array beams from NORSAR were not recoverable.

Details of the program used to obtain beam vertical, radial and transverse long-period data at LASA, ALPA and NORSAR are in the process of being reviewed. Vertical beams are probably valid while horizontal beams are questionable.

Scaling factors on plots are millimicrons at 1 Hz (not corrected for instrument response) with the exception of LASA and NORSAR short-period plots. LASA SP scaling factors are millimicrons per inch. Scaling factors are not reported for NORSAR short-period.

STATION DESCRIPTION

SITE CODE	LOCATION	SITE COORDINATES			ELEVATION METERS	INSTRUMENTATION	
		DEG	MIN	SECS		SHORT-PERIOD	LONG-PERIOD
ALPA	Alaska	65	14	00.0 N	626	None	31300
		147	44	36.0 W			
CPSO	McMinnville, Tennessee	35	35	41.4 N	574	0480 V 7515 H	SL210 V SL220 H
		085	34	13.5 W			
FN-WV	Franklin, West Virginia	38	32	58.0 N	910	KS36000	KS36000
		079	30	47.0 W			
LASA	Billings, Montana	46	41	19.0 N	744	HS10	7505A V 8700C H
		106	13	20.0 W			
HN-ME	Houlton, Maine	46	09	43.0 N	213	18300	SL210 V SL220 H
		067	59	09.0 W			
NORSAR	Kjeller, Norway	60	49	25.4 N	379	HS10	7505A V 8700C H
		010	49	56.5 E			
RK-ON	Red Lake, Ontario	50	50	20.0 N	366	18300	SL210 V SL220 H
		093	40	20.0 W			
WH2YK	White Horse, Yukon	60	41	41.0 N	853	18300	SL210 V SL220 H
		134	58	02.0 W			

HYPOCENTER DETERMINATION

INPUT FOR EVENT 24 APR 75
 14:10:00.0 37.000N 116.000W 0KM.

STA.	ARRIVAL	RESIDUALS		DIST.	AZ.
		CALC	REST		
LAO	14 12 54.9	-0.0	0.1	12.3	34.7
RF-ON	14 14 47.0	-0.0	-0.2	21.3	42.3
CPO	14 15 22.2	-0.0	-0.0	24.8	83.9
WH2YK*	14 16 10.2	25.1 *	32.5 *	26.5	339.4
HN-ME	14 17 08.7	-0.0	0.1	36.8	60.1

67 HERRIN TRAVEL TIME TABLES

ORIGIN	LAT.	LONG.	DEPTH (KM)	SDV	IT	STA
14:10:13.6	37.322N	115.368W	52. CALC	0.0	14	4
14:09:59.5	36.977N	116.368W	0. REST	0.2	3	4

CALC	REST
0 . 0	0 . 0
0 . 0	0 . 0
0 0. 3 1	0 0. 3 1
0 0. 0 0	0 0. 0 0
0 . 0	0 . 0
0 . 0	0 . 0

CHI2 COVERAGE ELLIPSE: 95 PER CENT CONF.. LEVEL, SDV= 1.95
 MAJOR 425.1KM. MINOR 69.3KM. AZ= 81 AREA= 92519 SQ.KM. REST

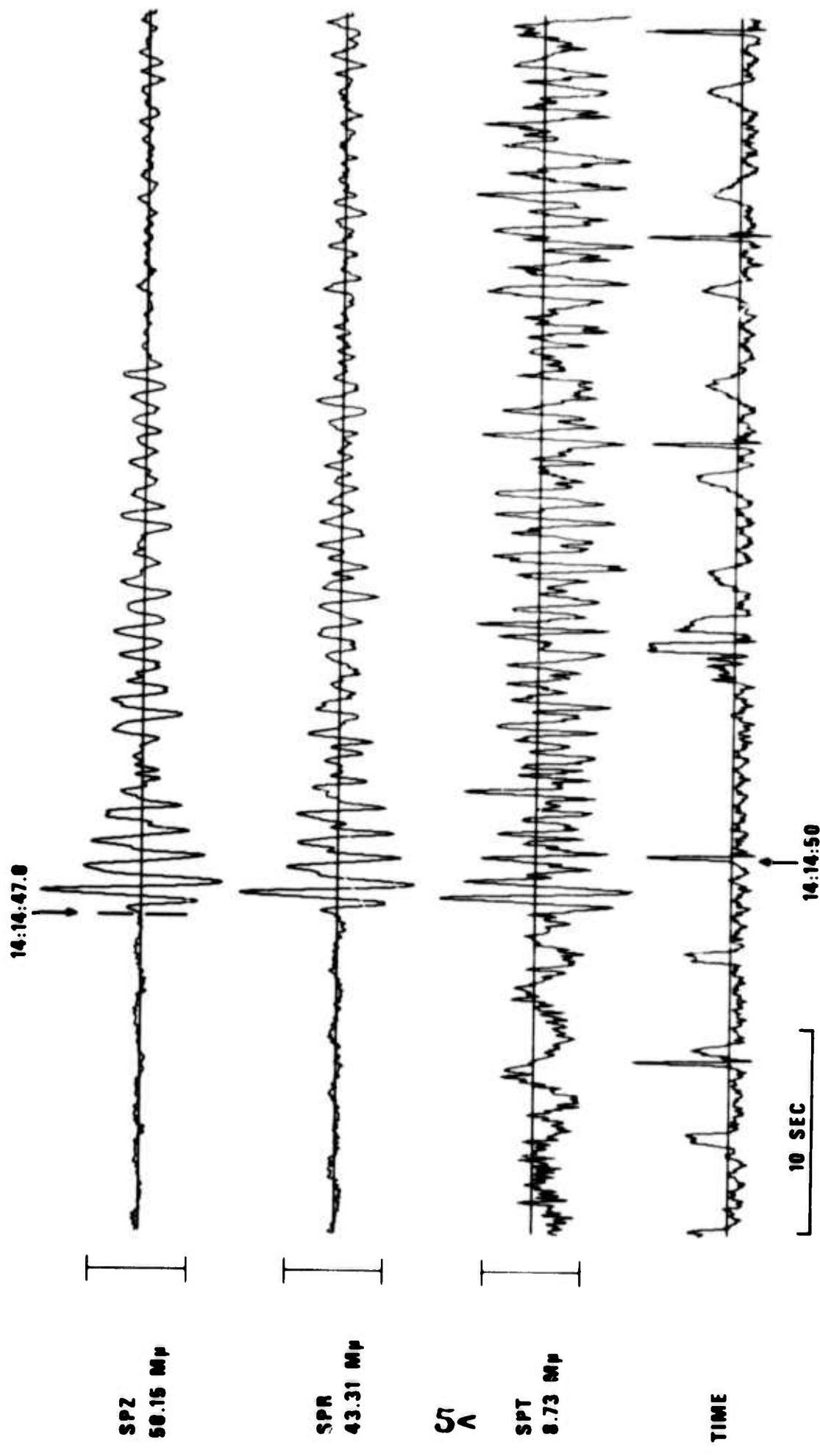
DATA SUMMARY

INPUT FOR EVENT 24 APR 75
 14:10:00.0 37.000N 116.000W 0KM.

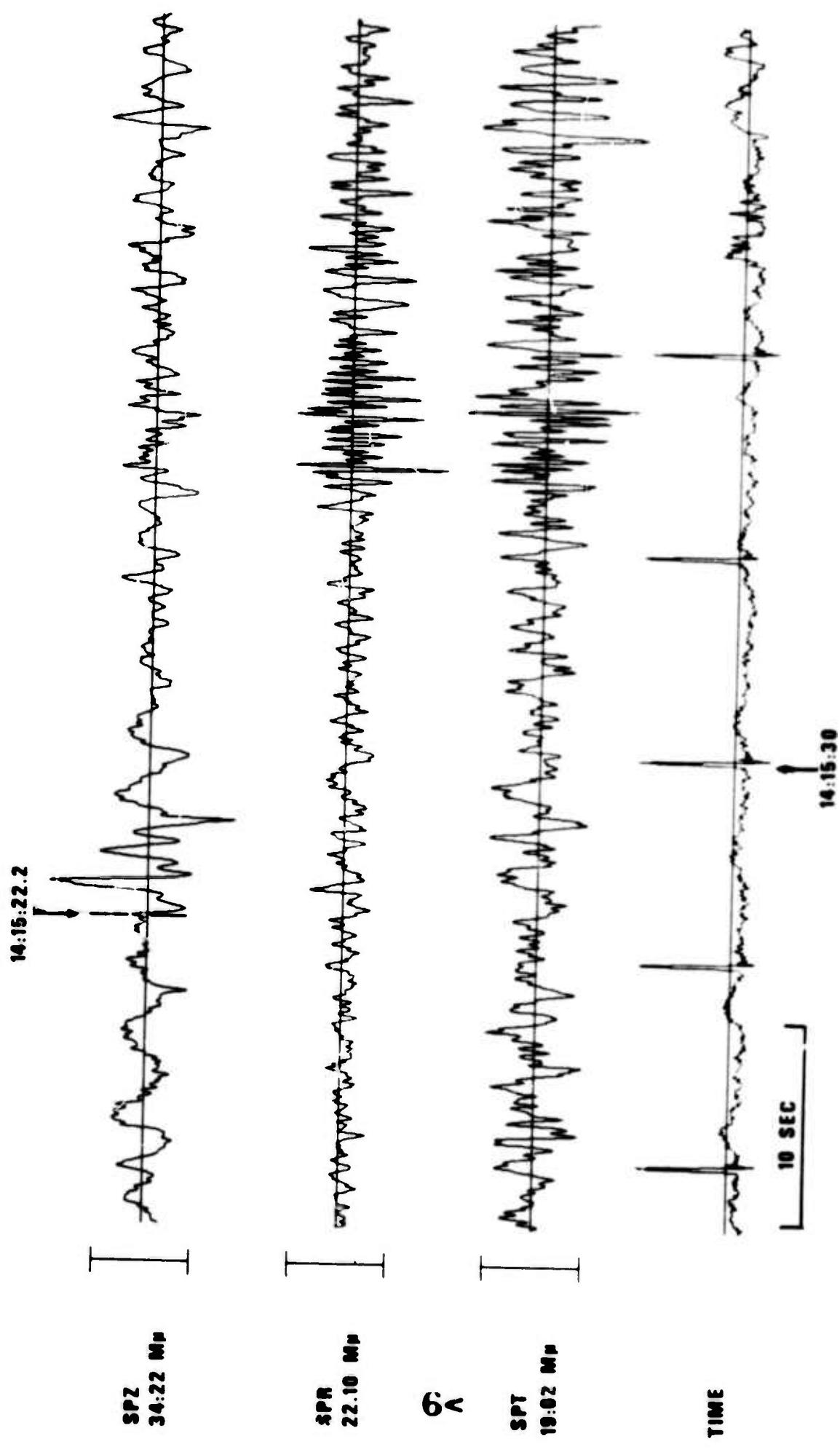
STN.	PHASE	ARRIVAL			MAGNITUDE			
		TIME	INST	PER	A/T	IP	MS	DIR
LAO	EP	14 12 54.9	SPZ	0.7	??			
RF-ON	EP	14 14 47.0	SPZ	1.0	105.	4.85		21.3
CPO	EP	14 15 22.2	SPZ	1.1	51.	4.87		24.0
WW2YK*	EP	14 16 10.2	SPZ	1.0	6.	3.93		26.5
WW2YK	LQ	14 25 21.0	LPT	20.0	7.			
WW2YK	LR	14 27 22.0	LPZ	18.0	11.	3.58		26.5
WW-ME	EP	14 17 08.7	SPZ	1.0	23.	4.58		36.8

ORIGIN	LAT.	LONG.	DEPTH (KM)	MAG	SDV	STA	LPMAG	LPSDV	LPSTA
14:10:13.6	37.322N	115.368W	52. CALC	4.72	0.97	3	3.58*****		1
14:09:59.5	36.977N	116.368W	0. PEST	4.77	0.16	3	3.58*****		1

RK-ON 24 APRIL 75



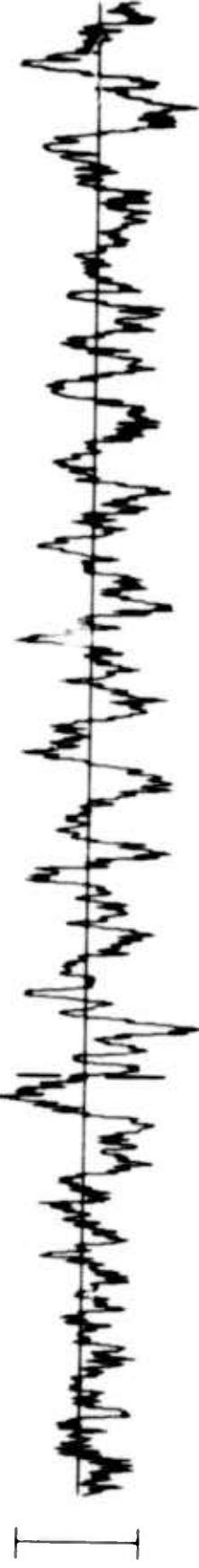
CPSO 24 APRIL 75



WH2YK 24 APR 75

14:16:10.2

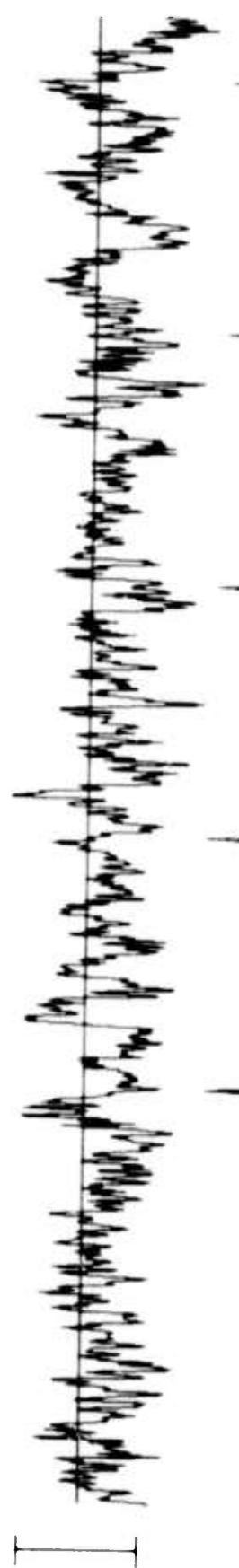
SPZ
5.71 M μ



SPR
4.67 M μ



SPT
6.68 M μ



TIME

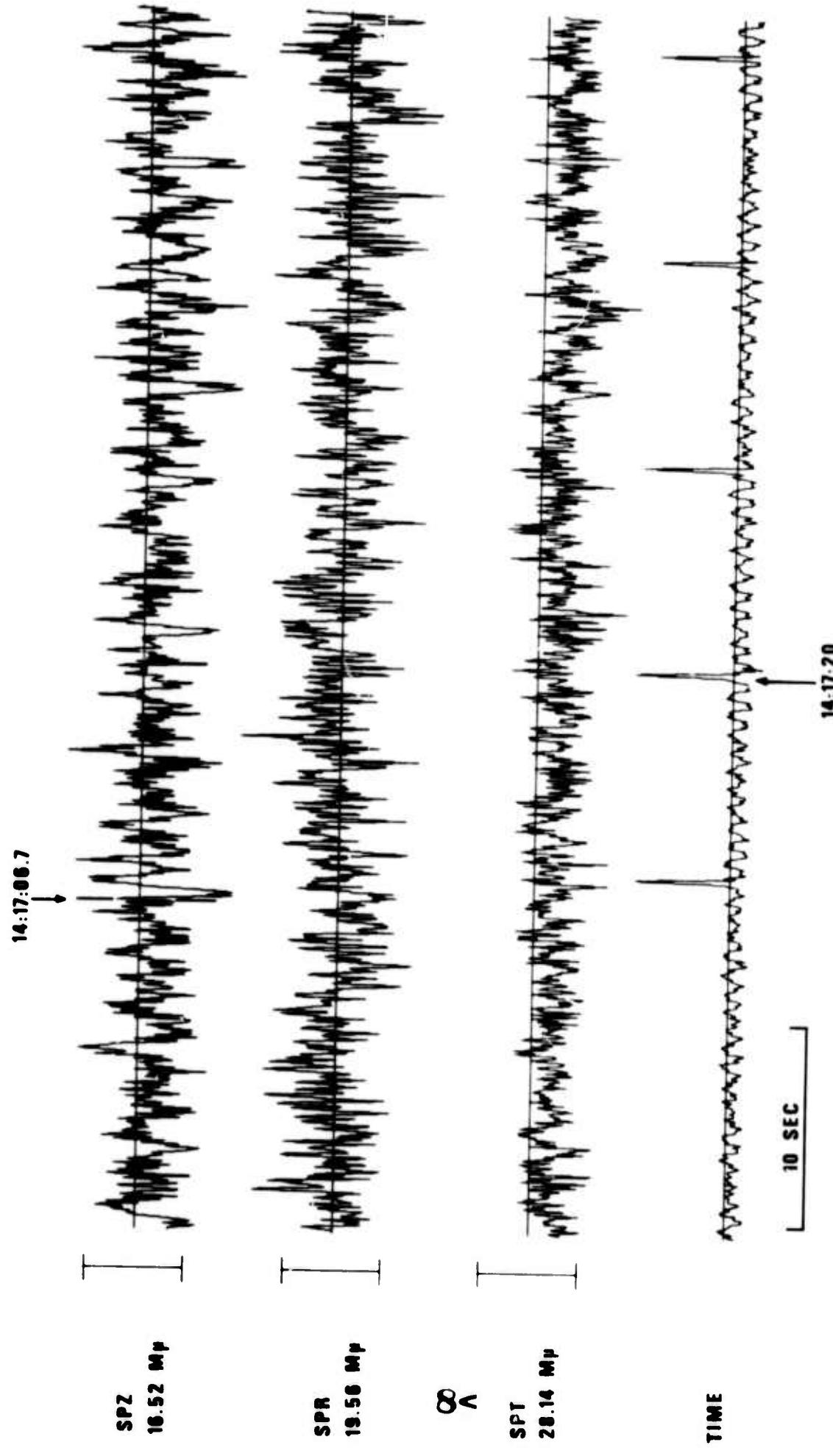
10 SEC

14:16:10

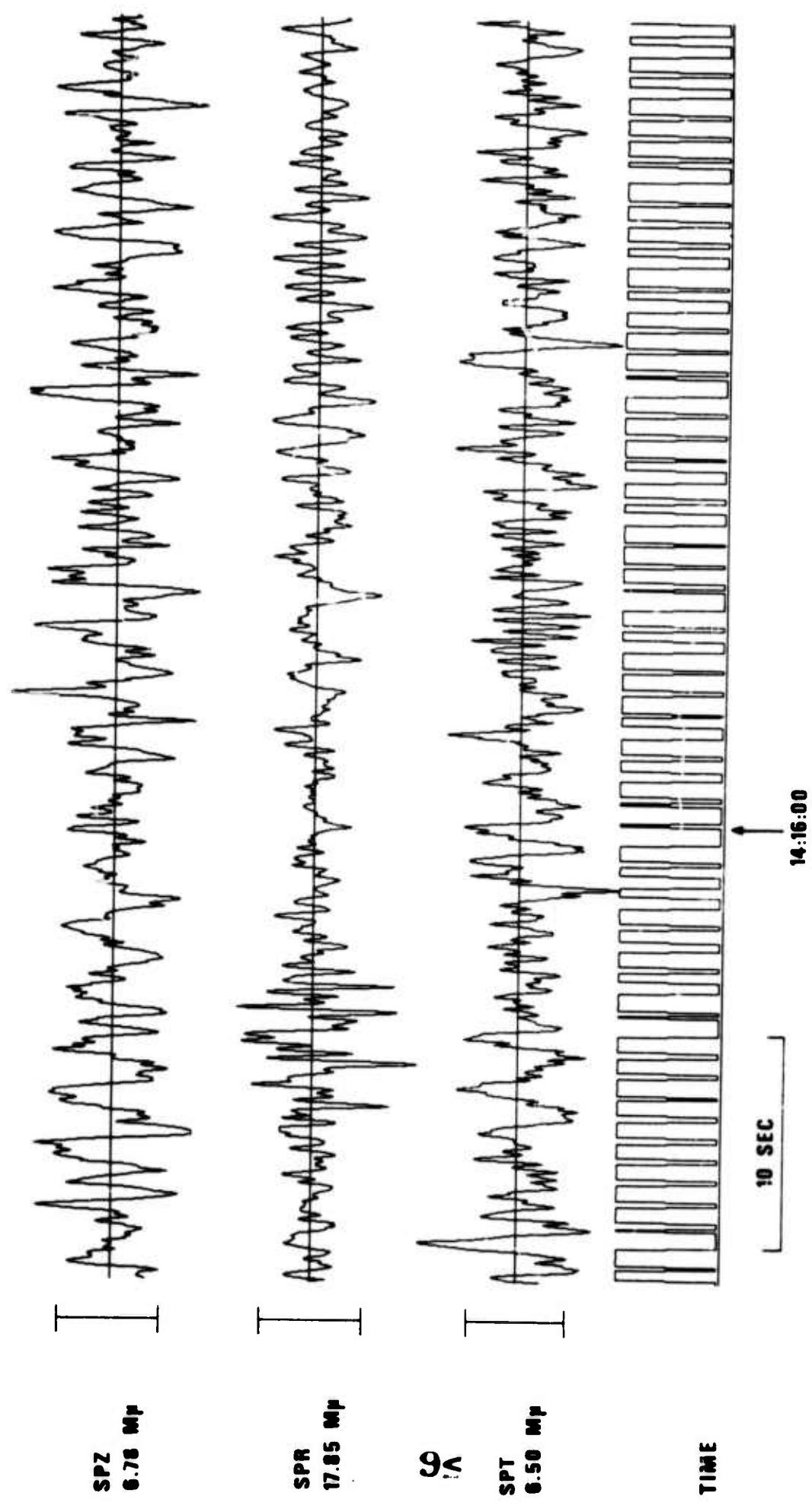
TIME

(-30 SECOND TIME CORRECTION)

HN-ME 24 APRIL 75

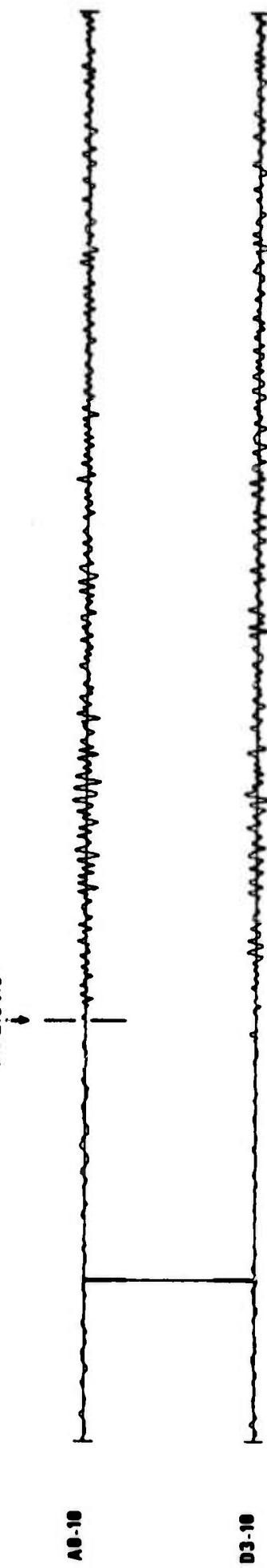


FN-WV 24 APRIL 75



LASA (SHORT-PERIOD HIGH-GAIN INSTRUMENTS) 24 APR 75

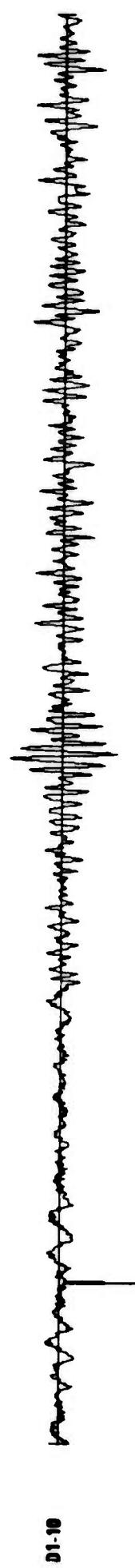
14:12:54.0



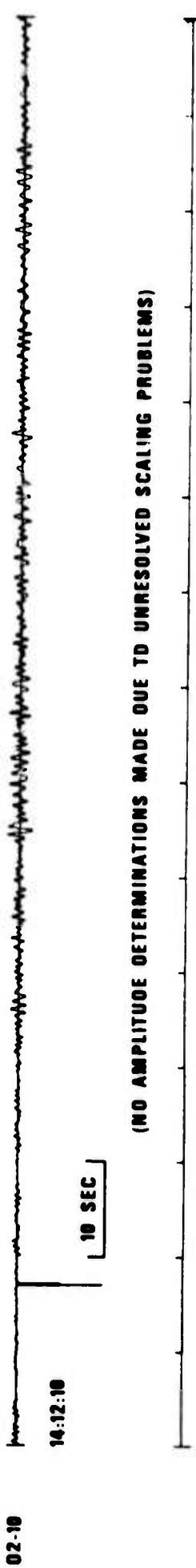
D3-10



D1-10



10 A

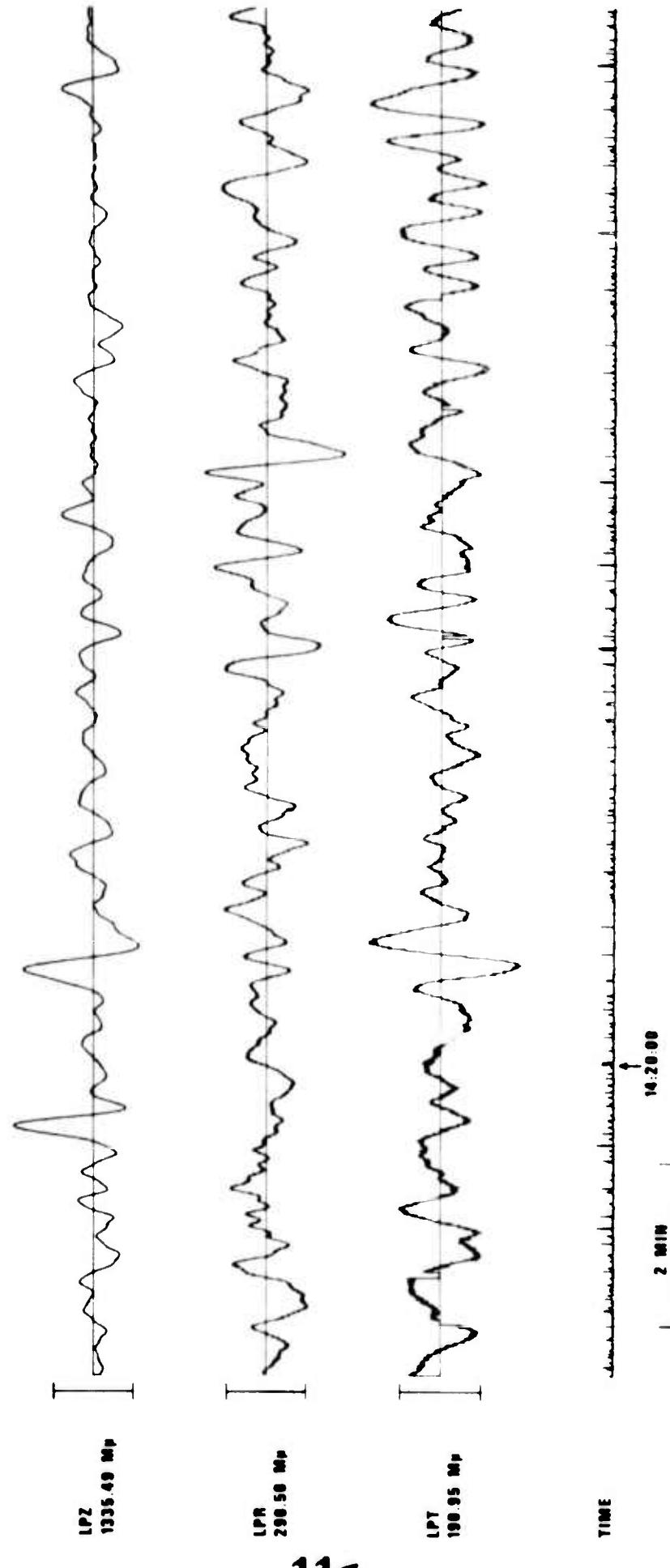


14:12:10

10 SEC

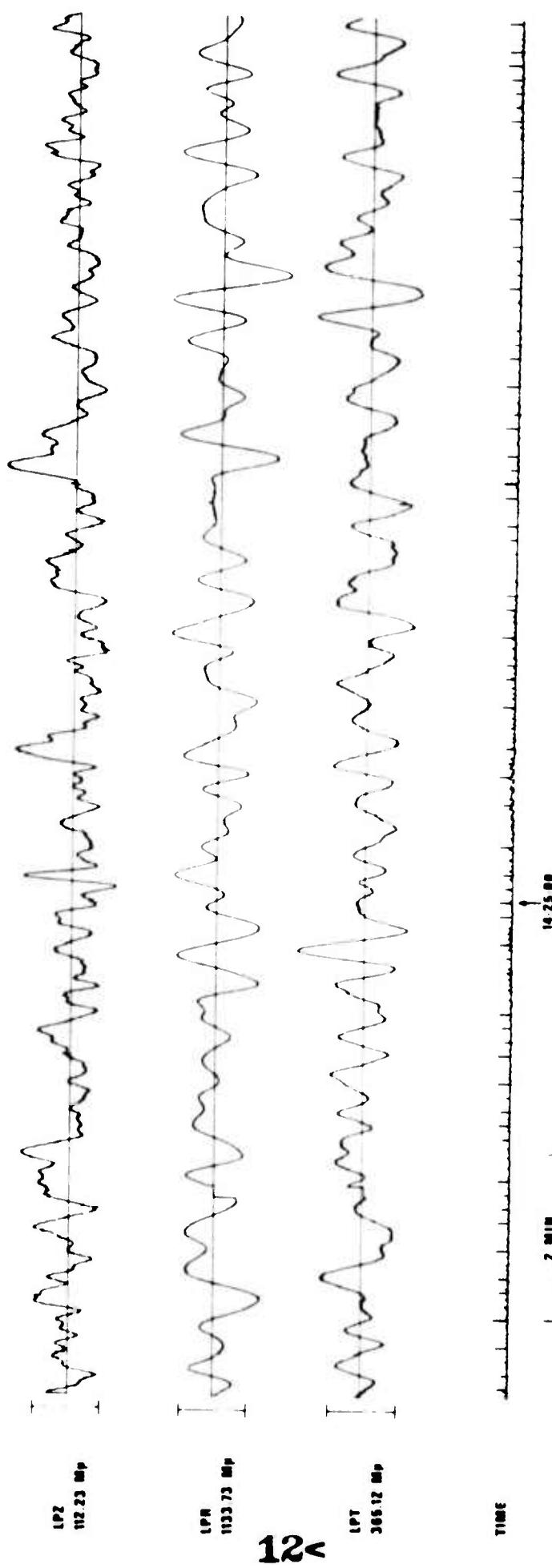
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RK-0N 24 APR 75



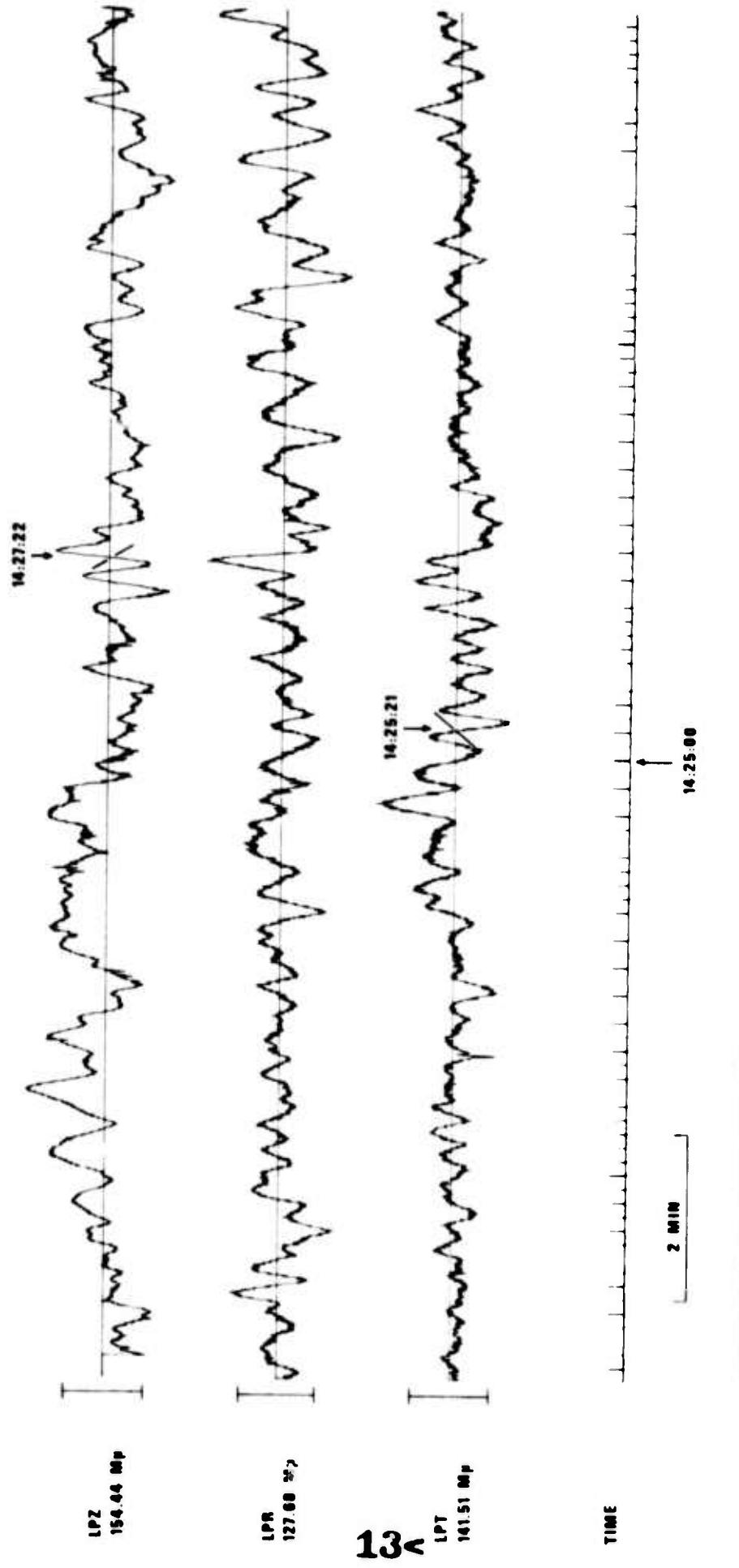
11<

CPSO 24 APRIL 75



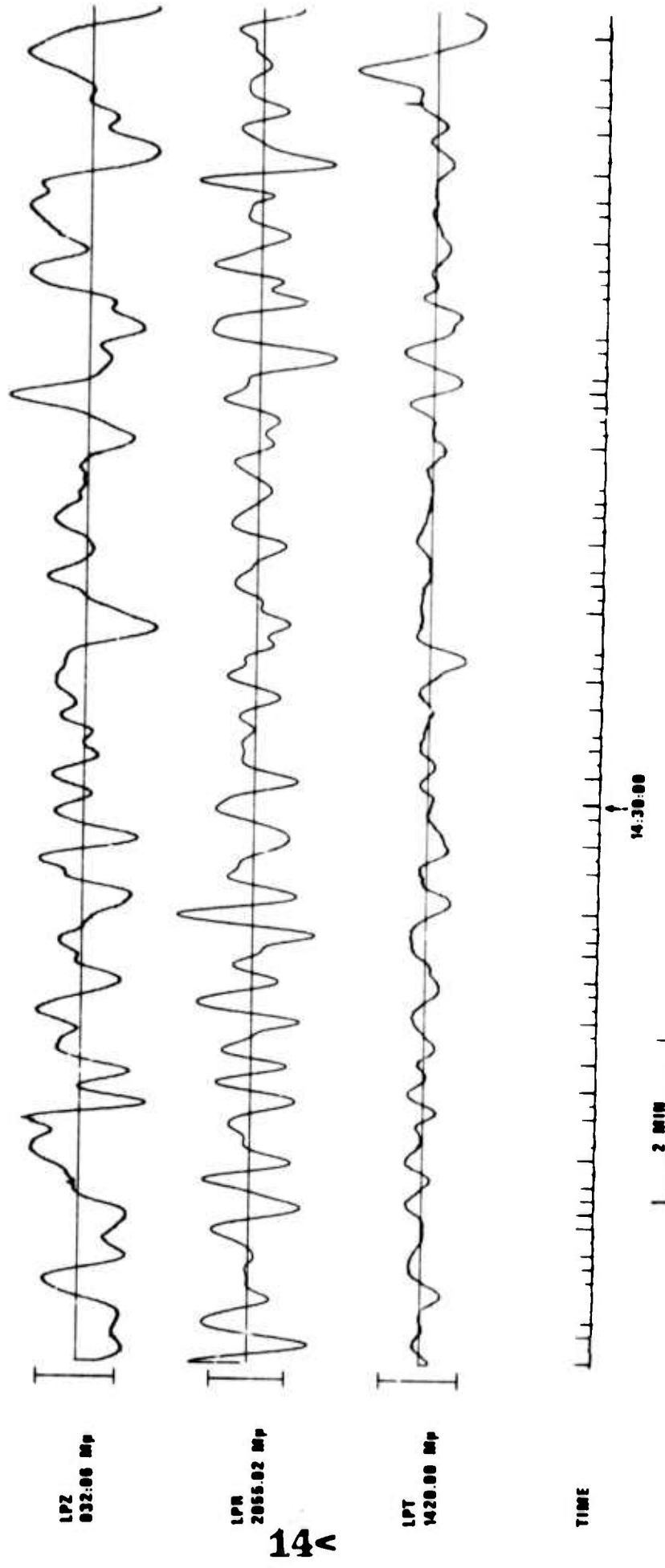
12a

WH2YK 24 APR 75

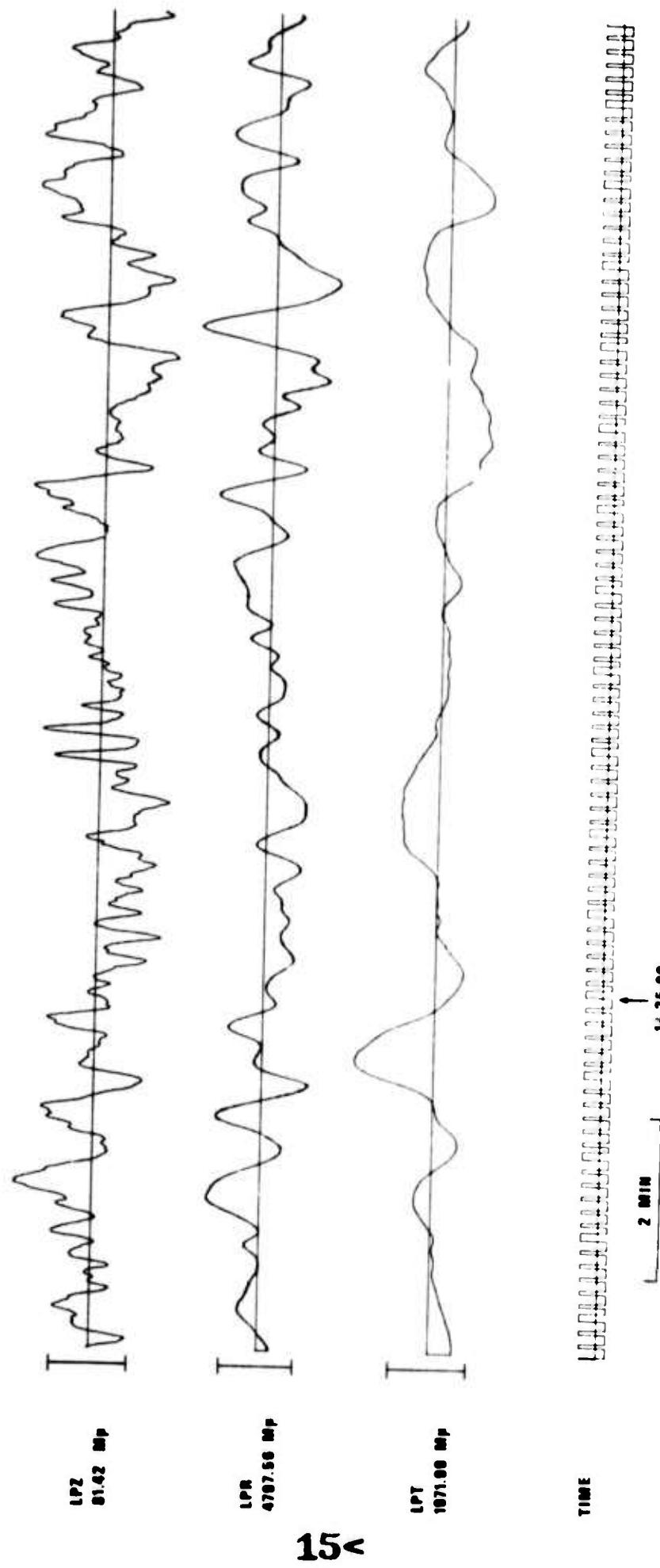


(APPROXIMATE -30 SECOND TIME CORRECTION)

HR-ME 24 APR 75

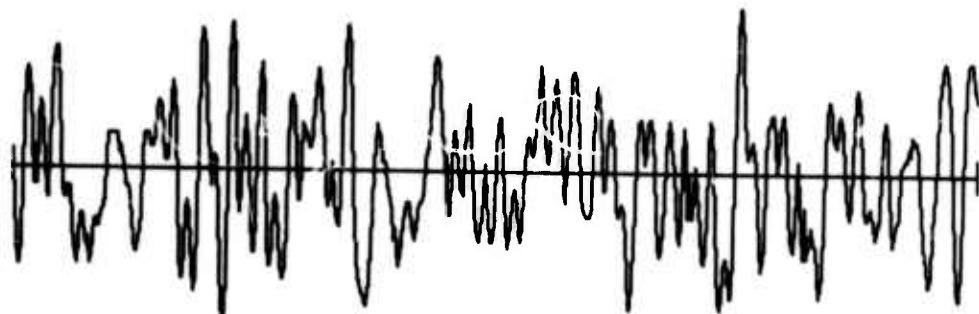


FN-WV 24 APR 75

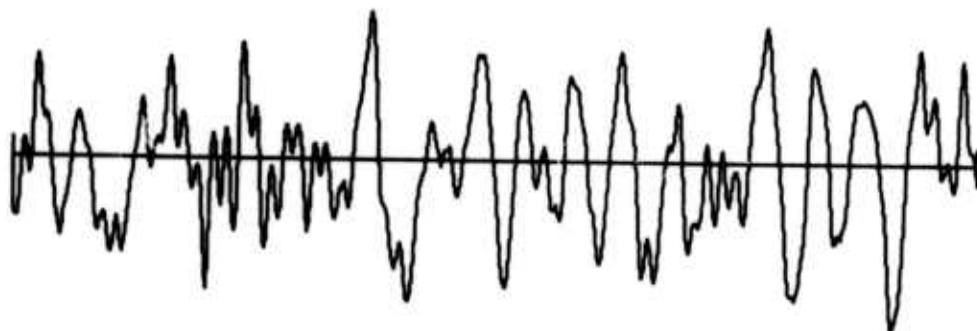


LASA C4 SUBARRAY 24 APRIL 75

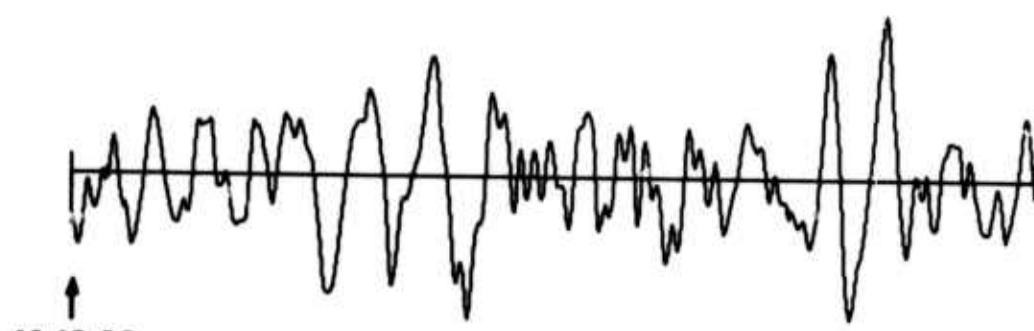
LPZ



LPN



LPE



14:12:00

2 MIN

(NO AMPLITUDE DETERMINATIONS MADE DUE TO UNRESOLVED SCALING PROBLEMS)

LASA LONG-PERIOD BEAMS 24 APRIL 75

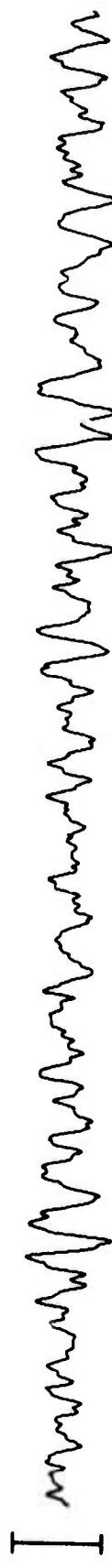
LP VERTICAL

93.87 M μ



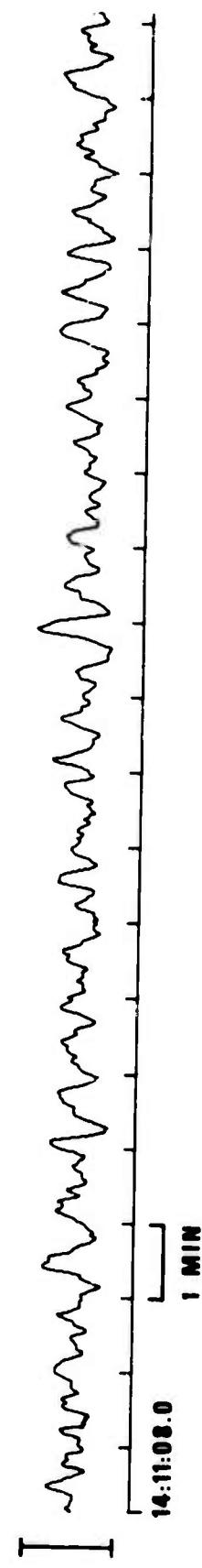
LP RADIAL

150.04 M μ



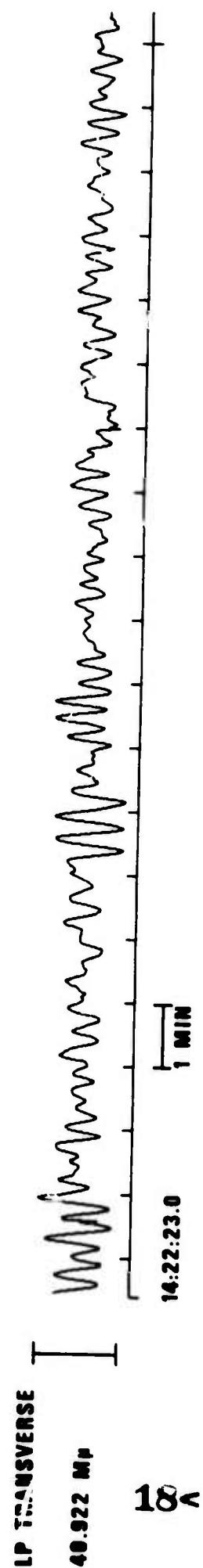
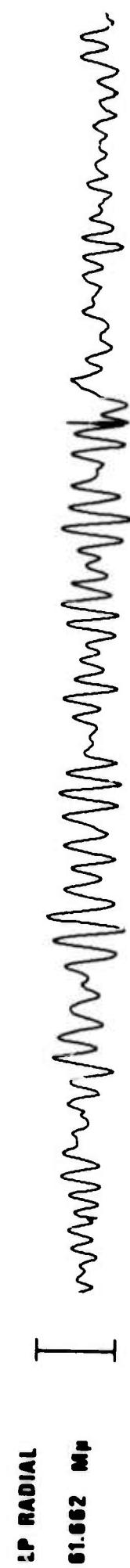
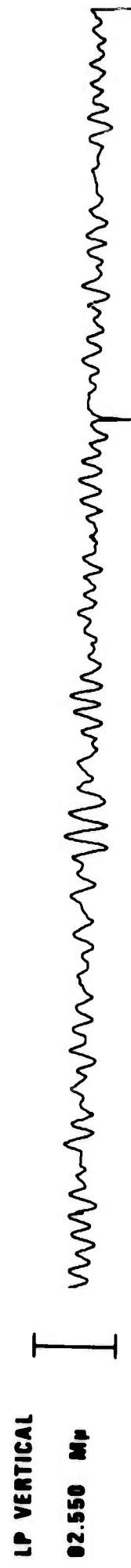
LP TRANSVERSE

189.83 M μ



1 MIN
17

ALPA LONG - PERIOD BEAMS 24 APRIL 75



18